

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2021/0388083 A1 Boyd-Kirkup et al.

Dec. 16, 2021 (43) **Pub. Date:**

(54) ENGINEERED FC

Applicant: Hummingbird Bioscience Holdings Pte. Ltd., Singapore (SG)

(72) Inventors: Jerome Douglas Boyd-Kirkup, Singapore (SG); Piers Ingram, Singapore (SG); Vicente Sancenon,

Singapore (SG)

(73) Assignee: Hummingbird Bioscience Holdings

Pte. Ltd., Singapore (SG)

17/288,245 (21)Appl. No.:

(22)PCT Filed: Oct. 25, 2019

PCT/EP2019/079131 (86) PCT No.:

> § 371 (c)(1), (2) Date:

Apr. 23, 2021

(30)Foreign Application Priority Data

Oct. 25, 2018 (GB) 1817354.2

Publication Classification

(51) Int. Cl. C07K 16/28

(2006.01)(2006.01)

C07K 16/32 U.S. Cl.

C07K 16/283 (2013.01); C07K 16/32

(2013.01); C07K 2317/72 (2013.01); C07K 2317/526 (2013.01); C07K 2317/732 (2013.01); C07K 2317/524 (2013.01)

(57)ABSTRACT

Antigen-binding molecules comprising an Fc region comprising a polypeptide having: (i) C at the position corresponding to position 242, and C at the position corresponding to position 334, and (ii) one or more of: A at the position corresponding to position 236, D at the position corresponding to position 239, E at the position corresponding to position 332, L at the position corresponding to position 330, K at the position corresponding to position 345, and G at the position corresponding to position 430 are disclosed. Also discloses are constituent polypeptides of such Fc regions, nucleic acids encoding such antigen- binding molecules and polypeptides, compositions comprising such antigen-binding molecules, polypeptides and nucleic acids, and methods using the same.

Specification includes a Sequence Listing.

	T		
WT		69.7	75.7
WT_LCK	C	61.2	76.1

